

F1G.3



FIG.4A

FIG.4B

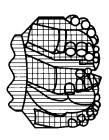


FIG.4C



FIG.4D

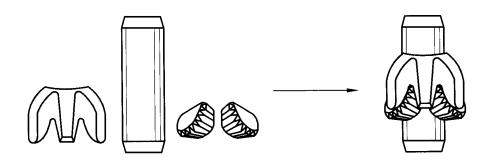
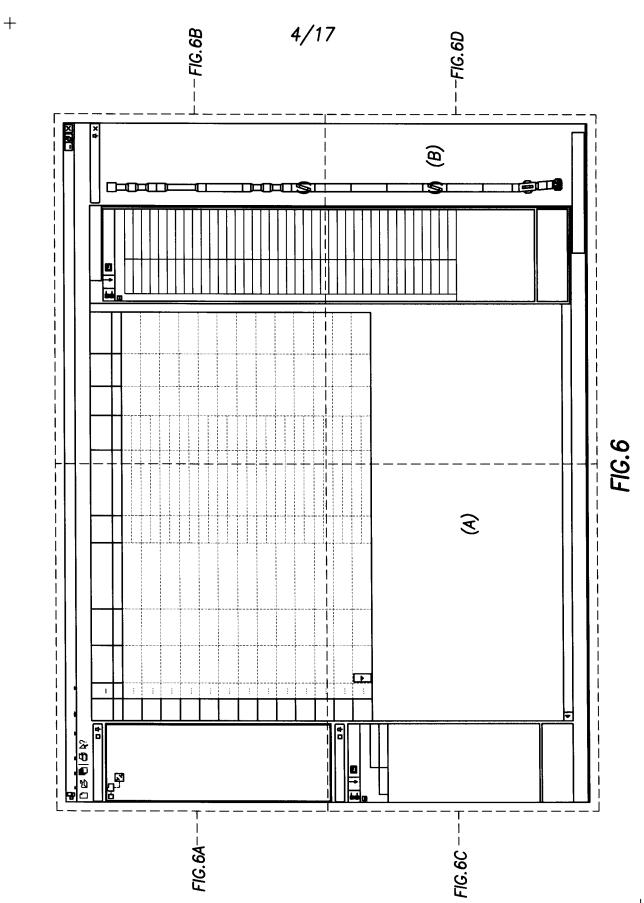


FIG.5



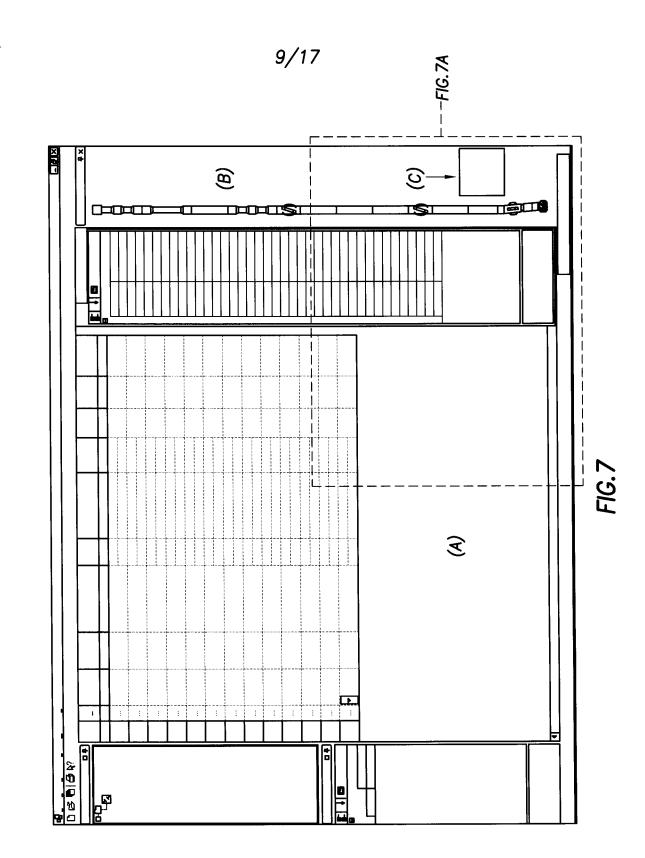
| | Ton Connection / | Bottom Connection | | | _ | Reg | Reg | 06H | 06H | | | | | HT55 | HT55 | NC50 (4 1/ | | ТS | ြွ | NC46 (| NC46 (| | | |
|----------------------|------------------|-------------------|--------|-------------|--------|-----------------|-----------------|-----------|------|------------|------|---------|------|-------------|------|------------|------|------------|------|--------------------|-------------------|------|----------|-------------------|
| | , co | ۵ | (in) | 7.50 | 3.25 | 6.75 | 5.50 | 6.75 | 3.00 | 5.50 | 3.25 | 6.75 | 2.50 | 5.50 | 3.25 | 6.75 | 2.25 | 2.32 | 1.82 | 4.50 | 2.75 | 4.75 | 1.86 | 4.34 |
| | | Description | | 9 7/8" Bit | | A675S2380XP-AIM | A675S2380XP-AIM | | MWD | | Stab | | LWD | | | x-over | | Stab | | Non-Magnetic Heavy | Weight Drill Pipe | Jar | | 4-1/2" 13.75 DPE, |
| ; | Series | Number | | | | | | | | | | | | | | | | | | | | | | |
| | | Туре | | BitPDCFixed | Cutter | Motor | | MWDPulser | | Stabilizer | | LWDTool | | DrillCollar | | SubCrossov | er | Stabilizer | | HeavyWeigh |)rillPipe | Jar | | DrillPipe |
| בו בו | | O I | E E | | : | | : | | : | | : | - | : | - | : | | : | 0, | : | | <u></u> | | : | - |
| A CONTRACT | | Item | | , | | , | 7 | , | .v | ١. | 4 | , | က | , | ٥ | , | _ | , | × | , | ກ | | <u>-</u> | ; |
| The Edit Format View | | no\bha2 xm | Bha 1 |] | | | | | | | | | | | | | | | | | | | | |

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| | X th Bu | | | | | | | | | | | | | | 1 | | | | | | ★ |
|---|------------|------|--------------|----------------|------------------|---------------|-------------------|--------------|--------------|--------------|--------------|---------------|--------------|-----|------------|-------------|-------------|------------------|--------|------------------|------------|
| | Drawing | | <u> </u> | | \L | | ار <u>۔</u> وو | | | | | | | | | <u></u> | _\ _ | | | | |
| ļ | | | | | Object reference | | Object Reference | | ABSENT WALLE | (Collection) | (10000) | 4-1/2" 13.75D | | 4.5 | | | | Object Reference | 3.958 | Object Reference | |
| | | | Average Join | AxialStiffness | Bend | BendStiffness | BitRecord | BurstPressur | CollapsePres | Connections | Depthin (ft) | Description | Displacement | | FishNeckld | FishNeckLer | FISHINECKOU | HoleOpener | 1 | | JountCount |
| | Cumulative | | 1.16 | | 30.24 | | 66.24 | | 73.24 | | 99.24 | | 129.24 | | 133.24 | | 140.44 | · | 665.44 | | 701.44 |
| į | Length | (#) | 1.16 | | 29.08 | | 36.00 | | 7.00 | | 26.00 | | 30.00 | | 4.00 | | 7.20 | | 525.00 | | 36.00 |
| | Max OD | (ij) | 9.88 | | 7.50 | | 9.88 | | 00.9 | | 6.75 | | 00.9 | | 8.50 | | 2.38 | | 6.25 | | 4.75 |
| | FN OD / | (in) | | | | | | | | | | | | | | | | | | | |
| | | | Reg | Reg | _ | × | _⊆ | Ę | 55 | 35 | 96 H | 0 | × | × | 1 | I | 9 | 8 | í. | í. | 퓬 |

7/17 NC46 (NC46 (3.96 4.50 2.75 Non-Magnetic Heavy Weight Drill Pipe Heavyweigh DrillPipe Þ : 12 3 **~** TreeNode: C:\te C:\temp\bha2.x o o FIG. 6C BHA Properties 器 24 四 回 Misc FolderLocation FolderLoc Parent Ready + 8/17 Object Reference 4.337 MaxDLS (de Object Reference (Collection DrillPipe Axial Stiffness of tubular StressFatigue TensileYieldS Od (in) PercentWea SerialNumbe ServiceClass TorsionalStiff **TorsionalYiel** WallThickne AxialStiffness Stabilizer MwdTool Vendor Type 1814.44 823.00 6.25 FIG. 6D 4 IF)



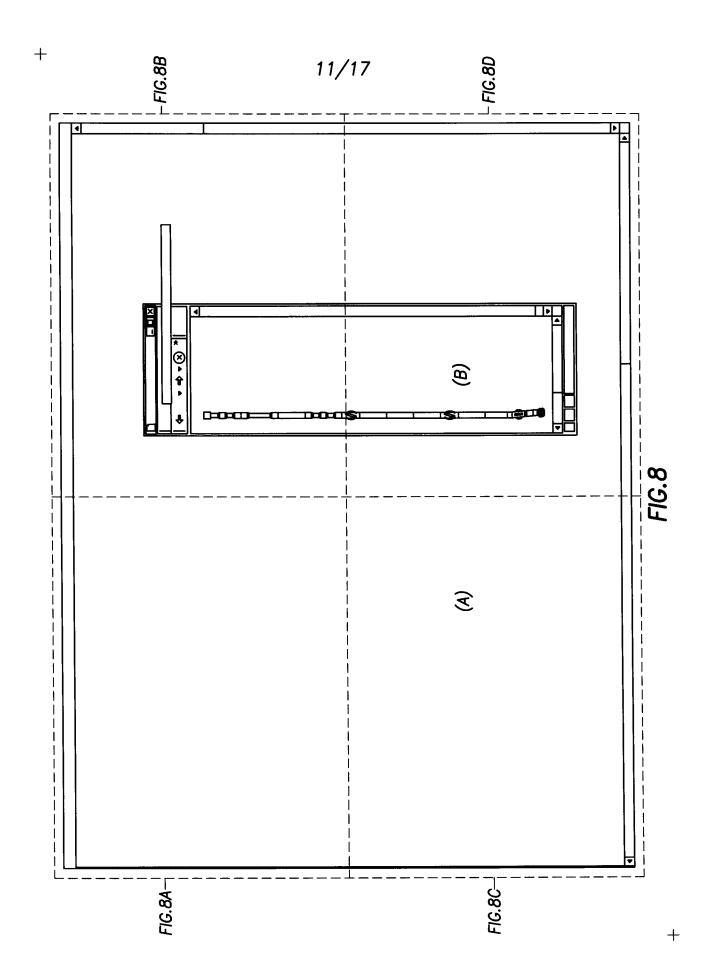


FIG.84

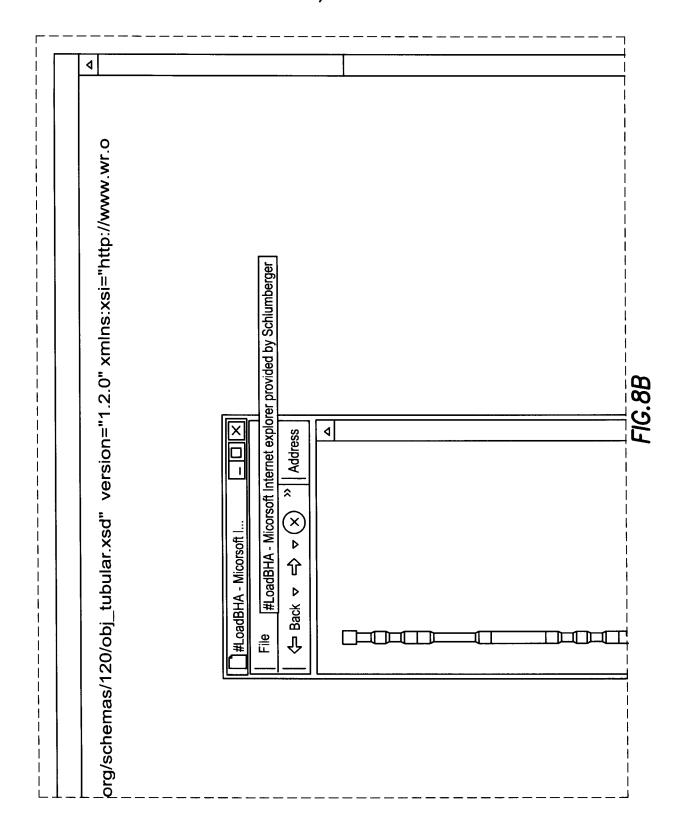
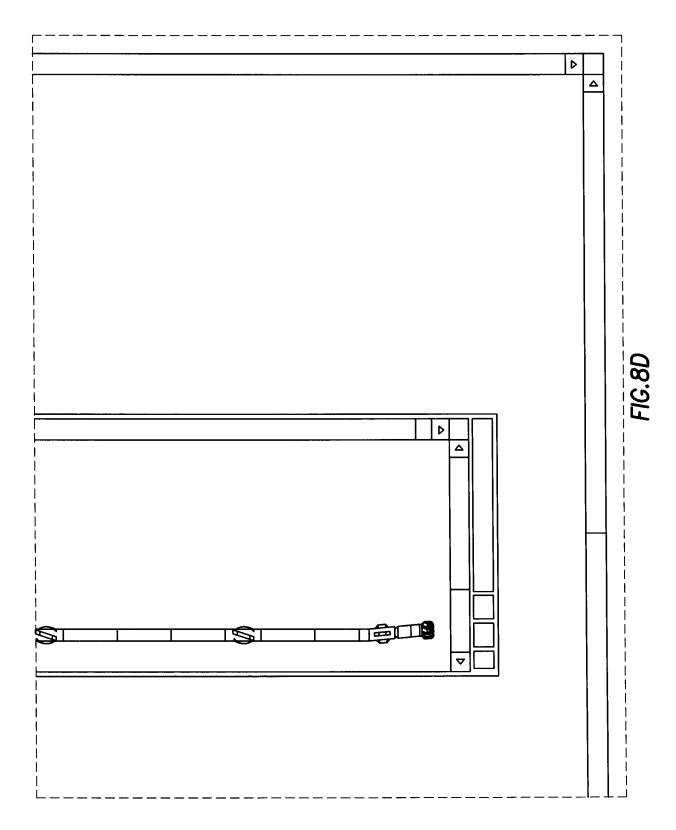
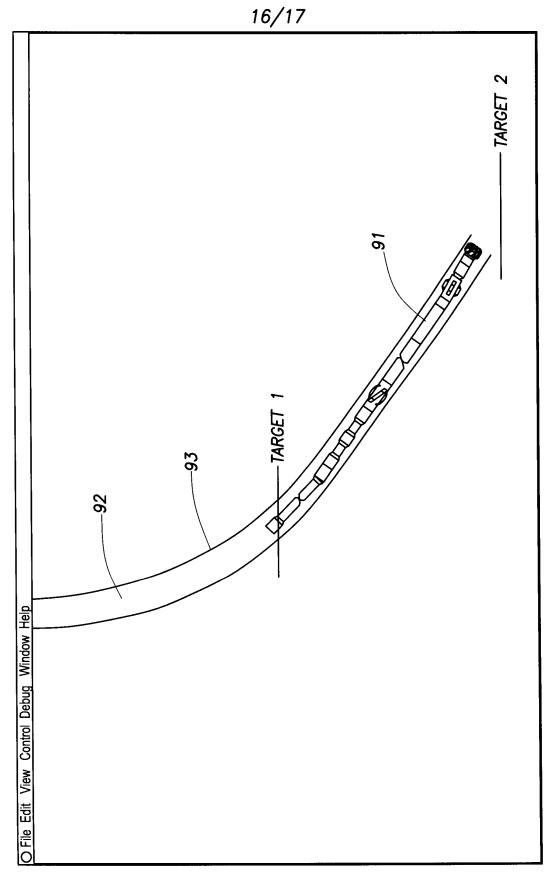


FIG.8C







F1G.9

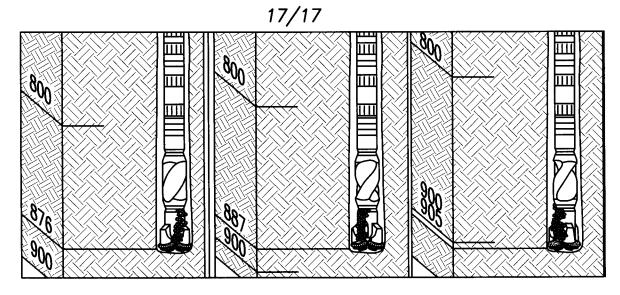


FIG. 10

